FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
16518.087	09/915,182
APPLICANTS	
Katayoon DEHESH	
FILING DATE	GROUP
July 25, 2001	1638

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RK	AA1	5,585,535	12/1996	Fehr *et al.*			
	AB1						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RK	AC1	0 969 014	1/2000	Europe			Yes No
RK	AD1	92/03564	3/1992	PCT			Yes No
RK	AE1	93/10240	5/1993	PCT			Yes No
RK	AF1	94/10189	5/1994	PCT			Yes No
RK	AG1	00/07433	2/2000	PCT			Yes No
RK	AH1	00/75343	12/2000	PCT			Yes No
RK	AI1	01/29238	4/2001	PCT			Abstract Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RK	AJ	1	International Search Report of PCT/US01/23369 dated September 25, 2002 (4 pages)
RK	AK	1	Dehesh *et al.*, Database EMBL, Accession No. AX073486 (1/24/2001) (XP002213168)
RK	AL	1	Kaneko *et al.*, Database EMBL, Accession No. D90905 (10/31/1996) (XP002213167)
RK	AM	1	Kaneko *et al.*, "Sequence Analysis of the Genome of the Unicellular Cyanobacterium *Synechocystis* sp. Strain PCC6803. II. Sequence Determination of the Entire Genome and Assignment of Potential Protein-coding Regions", *DNA Research*, Vol. 3, pp. 109-136 (1996)
RK	AN	1	Leonard *et al.*, "A *Cuphea* ß-ketoacyl-ACP synthase shifts the synthesis of fatty acids towards shorter chains in *Arabidopsis* seeds expressing *Cuphea* FatB thioesterases", *The Plant Journal*, 13(5), pp. 621-628 (1998)
RK	AO	1	Ohlrogge, "Design of New Plant Products: Engineering of Fatty Acid Metabolism", *Plant Physiol.*, Vol. 104, pp. 821-826 (1994)

EXAMINER	DATE CONSIDERED
Russell Kallis	12/20/2001

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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PTO/SB/08A				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/915,182
				Filing Date	07/25/01
(use as many sheets as necessary)				Confirmation Number	5251
				First Named Inventor	Dehesh, K.
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	1	of	3	Attorney Docket No.	MTC 6796

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document: Number	U.S. Patent Document: Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
RK	1	5,378, 619		Rogers, Stephen	01/03/95
RK	2	5,500,361		Kinney, A.	03/19/96
RK	3	5,693,507		Daniell, H., et al.	02/02/97
RK	4	5,723,595		Thompson, G., et al.	03/03/98
RK	5	5,952,544		Browse, J., et al.	09/14/99
RK	6	6,200,788B1		Ferri, S., et al.	03/13/01
RK	7	6,222,099		Gengenbach, B., et al.	04/24/01

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Office	Foreign Patent Document: Number[4]	Foreign Patent Document: Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T[6]
RK	8	✓	WO 97/10328		Zwick, M., et al.	03/20/97	
RK	9	✓	WO 98/46776		Dehesh, K.	10/22/98	
RK	10	✓	EP 0120 515		Schilperoort, Robbert A., et al.	03/10/84	

Examiner Signature	Russell Kelly	Date Considered	12/17/02

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[1]Unique citation designation number. [2]See attached Kinds of U.S. Patent Documents. [3]Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4]For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6]Applicant is to place a check mark here if English language Translation is attached.

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OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]
RK	11	Knowles, P.F. (1988) Recent advances in oil crops breeding. In World Conference on Biotechnology for the Fats and Oils Industry: Proceedings (Applewhite, T.E., ed.). American Oil Chemists' Society, pp. 35-38.	
RK	12	Siggaard-Andersen, M., Wissenbach, M., Chuck, J.A., Svendsen, I., Olsen, J.G. and von Wettstein-knowles, P. (1994) The *fabJ*-encoded beta-ketoacyl-[acyl carrier protein] synthase IV from *Escherichia coli* is sensitive to cerulenin and specific for short-chain substrates. *Proc. Natl. Acad. Sci. USA.* 91: 11027-11031.	
RK	13	Dehesh, K., Edwards, P., Fillatti, J., Slabaugh, M. and Byrne, J. (1998) KAS IV: a 3-ketoacyl-ACP synthase from *Cuphea sp.* is a medium chain specific condensing enzyme. *Plant J*. 15(3): 383-390.	
RK	14	Gould, S.J., Subramani, S. and Scheffler, I.E. (1989) Use of the DNA polymerase chain reaction for homology probing: isolation of partial cDNA or genomic clones encoding the iron-sulfur protein of succinate dehydrogenase from several species. *Proc. Natl. Acad. Sci. USA 86*: 1934-1938.	
RK	15	Jaworski, J.G., Clough, R.C. and Barnum, S.R. (1989) A cerulenin insensitive short chain 3-ketoacyl-acyl carrier protein synthase in *Spinacia oleracea* leaves. *Plant Physiol.* 90: 41-44.	
RK	16	Clough, R.C., Matthis, A.L., Barnum, S.R. and Jaworski, J.G. (1992) Purification and characterization of 3-ketoacyl –acyl carrier protein synthase III from spinach: a condensing enzyme utilizing acetyl-coenzyme A to initiate fatty acid synthesis. *J. Biol. Chem.* 267(29): 20992-20998.	
RK	17	Jaworski, J.G., Post-Beittenmiller, D. and Ohlrogge, J.B. (1993) Acetyl-acyl carrier protein is not a major intermediate in fatty acid biosynthesis in spinach. *Eur. J. Biochem.* 213(3): 981-987.	
RK	18	Shimakata, T. and Stumpf, P.K. (1982) Fatty acid synthetase of *Spinacia oleracea* leaves. *Plant Physiol.* 69: 1257-1262.	
RK	19	Shimakata, T. and Stumpf, P.K. (1982) Isolation and function of spinach leaf beta-ketoacyl-[acyl carrier protein] synthases. *Proc. Natl. Acad. Sci. USA* 79:5808-5812.	

Examiner Signature	Russell Kallis	Date Considered	12/17/02

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				Examiner Name	Unknown
Sheet	3	of	3	Attorney Docket No.	MTC 6796

RK	20	Kauppinen, S., Siggaard-Andersen, M. and von Wettstein-Knowles, P. (1988) Beta-ketoacyl-ACP synthase I of *Escherichia coli*: nucleotide sequence of the *fabB* gene and identification of the cerulenin binding residue. *Carlsberg Res. Commun.* 53: 357-370.	
RK	21	Coulson, A. (1994) High-performance searching of biosequence databases. Trends in Biotech. 12: 76-80.	
RK	22*	Baxevanis, A.D., Boguski, M.S. and Ouellette B.F.F. (1997) Computational analysis of DNA and protein sequences. In Genome Analysis: a laboratory manual, Volume 1: Analyzing DNA (Birren, B., Green, E.D., Klapholz, S., Myers, R.M. and Roshams, J., eds.) 1: 543-559.	
RK	23	Magnuson, K., Carey, M.R. and Cronan, J.E., Jr. (1995) The putative *fabJ* gene of *Escherichia coli* fatty acid synthesis is the *fabF* gene. *J. Bacteriol.* 177(12): 3593-3595.	
RK	24	Edwards, P., Nelsen, J.S., Metz, J.G. and Dehesh, K. (1997) Cloning of the *fabF* gene in an expression vector and *in vitro* characterization of recombinant *fabF* and *fabB* encoded enzymes from *Escherichia coli*. *FEBS Letters* 402: 62-66.	
RK	25	Garwin, J.L., Klages, A.L. and Cronan, J.E., Jr. (1980) Beta-ketoacyl-acyl carrier protein synthase II of Escherichia coli: evidence for function in the thermal regulation of fatty acid synthesis. *J. Biol. Chem.* 255(8): 3263-3265.	
RK	26	Moche, M., Dehesh, K., Edwards, P. and Lindqvist, Y. (2001) The crystal structure of beta-ketoacyl-acyl carrier protein synthase II from *Synechocystis sp.* at 1.54 Å resolution and its relationship to other condensing enzymes. *J. Mol. Biol.* 305: 491-503.	
RK	27	Chen. Z.-L., Schuler, M.A. and Beachy, R.N. (1986) Functional analysis of regulatory elements in a plant embryo-specific gene. *Proc. Natl. Acad. Sci. USA* 83: 8560-8564.	
RK	28	Thompson, G.A., Scherer, D.E., Foxall-Van Aken, S., Kenny, J.W., Young, H.L., Shintani, D.K., Kridl, J.C. and Knauf, V.C. (1991) Primary structures of the precursor and mature forms of stearoyl-acyl carrier protein desaturase from safflower embryos and requirement of ferredoxin for enzyme activity. *Proc. Natl. Acad. Sci. USA* 88: 2578-2582.	
RK	29	Wu, J., Lightner, J., Warwick, N. and Browse, J. (1997) Low-temperature damage and subsequent recovery of *fab1* mutant Arabidopsis exposed to 2°C. *Plant Physiol.* 113(2): 347-356.	

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